

ABHAY VENKATESH

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OVERVIEW

- Abhay Venkatesh is a *Tech Lead* at Anduril Industries, where he focuses on Autonomy Infrastructure, Simulation Infrastructure, Command-And-Control, and Lattice
- Abhay is mentored by **Jared Newman**, *Head of Platform* at Anduril, and **Nabil Enayet**, *Group Lead for Platform* at Anduril
- Prior to his Tech Lead role, Abhay worked directly under **Brian Schimpf**, *CEO and Co-Founder of Anduril*, and *ex-Director of Engineering at Palantir*, on Perception problems ranging from Edge Inference, Quantized Learning and Inference, to Object Detection and Mapping
- Abhay graduated from the University of Wisconsin-Madison with *Distinction and Departmental Honors with a Bachelor of Science in Computer Sciences and Mathematics*
- At the University of Wisconsin-Madison as an *Research Assistant*, Abhay worked on Computer Science research, focusing on Machine Learning, Computer Vision, Robotics, Human-Computer Interaction, Internet of Things, and Big Data Systems
- For his Machine Learning and Computer Vision Research, Abhay was advised by **Dr. Vikas Singh**, *Professor of Computer Science and Bioinformatics* at the University of Wisconsin-Madison
- For his Big Data Systems Research, Abhay was advised by **Dr. Shivaram Venkataram**, *Assistant Professor of Computer Science* at the University of Wisconsin-Madison
- For his Human-Computer Interaction and Robotics Research, Abhay was advised by **Dr. Bilge Mutlu**, *Professor of Computer Science* at the University of Wisconsin-Madison
- Abhay has also worked at Facebook as a *Software Engineer Intern* on the News Feed Integrity Team, where he worked on machine learning, modeling, and product to improve the quality of the Facebook News Feed
- At Stanford University, Abhay was a *Research Intern* working on Robotics, Human-Computer Interaction, and Software Platform research advised by **Dr. Wendy Ju**, and **Dr. Michael Bernstein**
- In High School, Abhay was the *Valedictorian* for his breadth of excellence ranging from music and competitive quizzing to academics and entrepreneurship

EXPERIENCE

Anduril Industries <i>Software Engineer</i>	Irvine, CA May 2019 —
University of Wisconsin-Madison <i>Research Assistant</i>	Irvine, CA September 2016 — May 2019
Facebook, Inc. <i>Software Engineer Intern</i>	Menlo Park, CA May 2018 — August 2018
Stanford University <i>Research Intern</i>	Stanford, CA June 2017 — September 2017
Startup at Top Business School <i>Product Manager Intern</i>	May 2016 — August 2016

EDUCATION

Stanford University Computer Science (Non-Degree)	Stanford, CA <i>Summer Session (GPA 4.0)</i>
University of Southern California B.S. Computer Science	Los Angeles, CA <i>Admitted but did not enroll</i>
University of Wisconsin-Madison	Madison, WI

PUBLICATIONS

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- Generating Accurate Pseudo-Labels in Semi-Supervised Learning and Avoiding Overconfident Predictions via Hermite Polynomial Activations**, CVPR 2020
- Generating Accurate Pseudo-labels via Hermite Polynomials for SSL Confidently**, Best Student Paper at MMLS 2019
- Nondecomposable Data Dependent Regularizers offer Significant Performance Gains**, DeepMath 2019
- Optimizing Nondecomposable Data Dependent Regularizers via Lagrangian Reparameterization offers Significant Performance and Efficiency Gains**, AAAI 2019, Ranking method on the Microsoft COCO Leaderboard
- The Case for Unifying Data-loading in Machine Learning Clusters**, HotCloud 2019, In Collaboration with Microsoft Research
- Learning View Invariant Semantic Segmentation for UAV Video Sequences**, SDM 2018, In Collaboration with American Family Insurance

TEST SCORES

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- GRE Composite** 99th Percentile
GRE Analytical Writing 99th Percentile
GRE Verbal Reasoning 98th Percentile
SAT Math 97th Percentile

HIGHLIGHTED COURSEWORK

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- Stanford CS 161** *Design and Analysis of Algorithms*
- UW-Madison CS 564** *Database Management Systems*
- UW-Madison CS 838** *Graduate Learning Methods in Computer Vision*
- UW-Madison CS 766** *Graduate Computer Vision*
- UW-Madison CS 760** *Graduate Machine Learning*
- UW-Madison CS 744** *Big Data Systems*
- UW-Madison CS 540** *Artificial Intelligence*
- UW-Madison CS 537** *Operating Systems*
- UW-Madison Math 531** *Advanced Probability Theory*
- UW-Madison Math 525** *Linear Programming*
- UW-Madison Math 521** *Analysis I*
- UW-Madison Math 522** *Analysis II*

AWARDS

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| Edison Award | USA |
| <i>Awarded to Anduril for the Ghost Product which Abhay contributed to</i> | 2021 |
| Cornell, Maryland, and Max Planck Pre-Doctoral Research Fellowship | Germany |
| <i>Internationally recognized award, fully-funded seminar at the Max-Planck Institute</i> | 2018 |
| Hilldale Undergraduate Research Fellowship | Madison, WI |
| <i>Research award and funding</i> | 2018 |
| Phi Kappa Phi Nominee | Madison, WI |
| <i>Top 7.5% of all juniors</i> | 2018 |
| Course Citation | Madison, WI |
| <i>CS 564: Database Management Systems</i> | 2018 |
| The Hub CS Club Coding Competition | Madison, WI |
| <i>1st place</i> | March, 2017 |
| Award Winning Exhibit | Madison, WI |
| <i>Wisconsin Engineering EXPO</i> | March, 2017 |
| Dean's Award of Excellence | Madison, WI |
| <i>Awarded to Madison Enactus of which Abhay was the VP of Technology</i> | 2016 |
| Best Social Entrepreneurship Project, Transcend | Madison, WI |
| <i>Awarded to Madison Enactus of which Abhay was the VP of Technology</i> | 2016 |

John W. Jung Memorial Scholarship <i>Awarded by UW-Madison for leadership, excellence, and service.</i>	Madison, WI 2016
Dean's List <i>University of Wisconsin-Madison</i>	Madison, WI 2016
High School Valedictorian <i>To the best overall student</i>	December, 2015
National 3rd Place in Top Tech Quiz <i>Prestigious national award out of 15,000 participants across the country</i>	December, 2014
Acknowledgement by Head of State <i>For Founding a Successful Not-For-Profit</i>	December, 2014
State Recommendation <i>For Founding a Successful Not-For-Profit</i>	December, 2014

LEADERSHIP

Judge <i>Contrary Talent Hacks</i>	February, 2021
Judge <i>DubHacks</i>	October, 2020
Judge <i>HackThis by HackIllinois</i>	August, 2020
Judge <i>GarudaHacks</i>	August, 2020
President, Co-Founder <i>AI at UW, ai.cs.wisc.edu</i>	2017
VP of Technology <i>Madison Enactus</i>	2016
Executive <i>The Hub CS Club</i>	2016
Chief Technology Officer <i>Insight Wisconsin</i>	2016
Executive <i>Transcend</i>	2015
Co-Founder <i>Model United Nations</i>	2014
Co-Founder <i>Soccer Cup</i>	2014
Co-Founder <i>Student Parliament</i>	2013
Quizmaster <i>Top Engineering University</i>	2013

ORGANIZATIONS

Contrary Talent <i>Member (~100 selected out of 2200+)</i>	contrarycap.com/talent
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